CITY OF FLAGSTAFF

Community Greenhouse Gas Emissions Report Calendar Year 2012

BE RESOURCEFUL

FLAGSTAFF SUSTAINABILITY PROGRAM

WORKING TOWARD COMMUNITY SUSTAINABILITY

CITY OF FLAGSTAFF · ARIZONA · ESTABLISHED 1882 ·

Introduction

Why We Track:

The City of Flagstaff is committed to making Flagstaff more resourceful and resilient city. And one important component of resilience in Flagstaff is contribution toward climate change solutions. Tracking community trends in resource consumption is one way to better understand the direction our community is heading. Are we using more or less resources per person each passing year? This is important, because the first step toward making change is understanding where you are now.

What We Track:

Here is the list of the data that we are carefully monitoring:

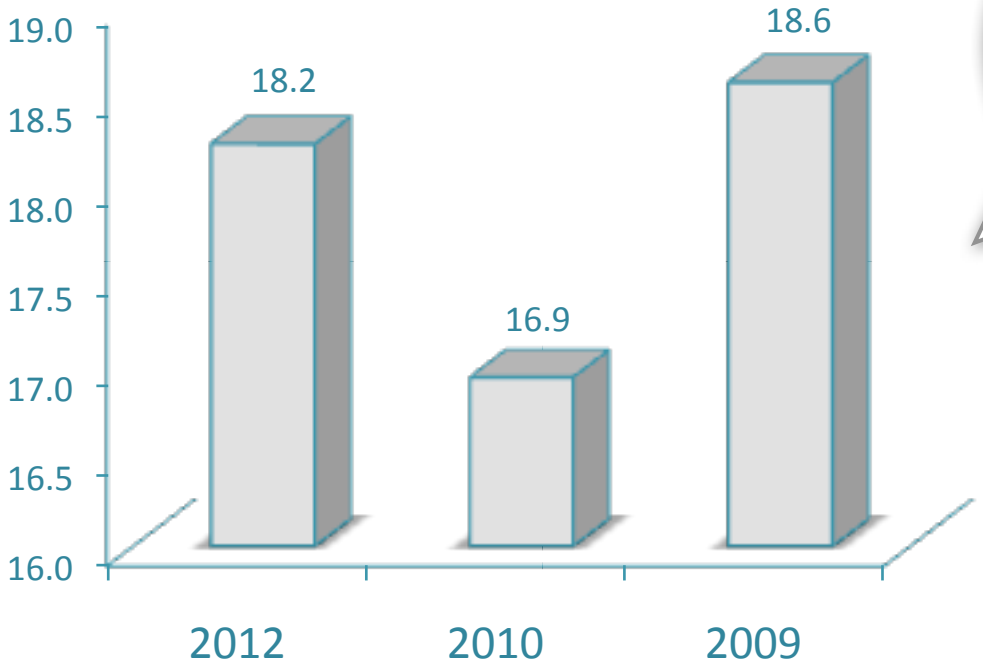
- Electricity consumption for residential, commercial, and industrial sectors
- Natural Gas consumption for residential, commercial, and industrial sectors
- Fuel consumed by Flagstaff community
- Tons of waste sent to landfill

Other considerations:

The production of greenhouse gases are not limited to activities like energy production and fuel consumption. The food we eat, for example, also contributes to greenhouse gas emissions through he amount of fossil fuels required to manage, transport, and process it. The clothes and other material goods we purchase also contribute to greenhouse gas emissions through the amount of energy required to produce and manufacture them. These emission sources are difficult to approximate at the community scale, but you can learn more about your own emissions online by searching for carbon footprint calculators. Because these calculations are not included in our data, the metric tons of carbon produced per person listed in our report are slightly lower than a true full accounting would provide.

Community Emissions Summary

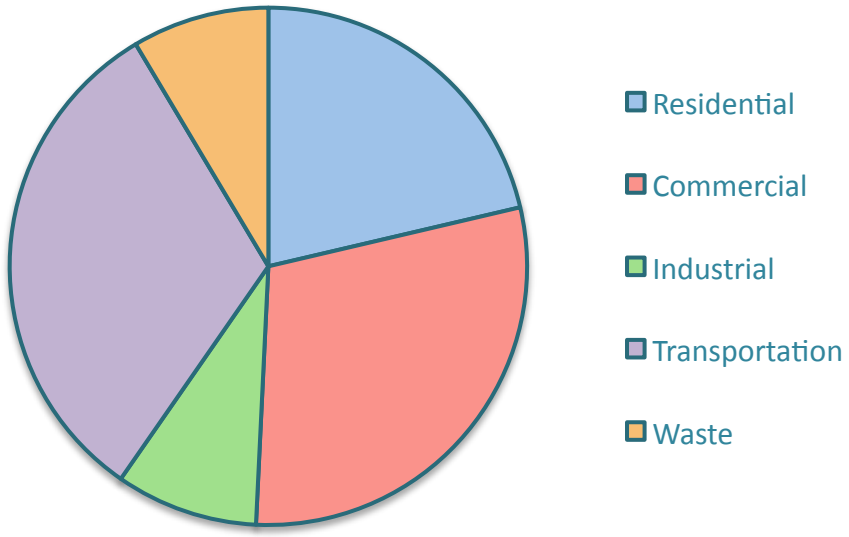
Per Capita Metric Tons of CO2e*



Tons of CO2e produced per person rose by nearly 8%, but is still 2% lower than the 2009 per capita emissions.

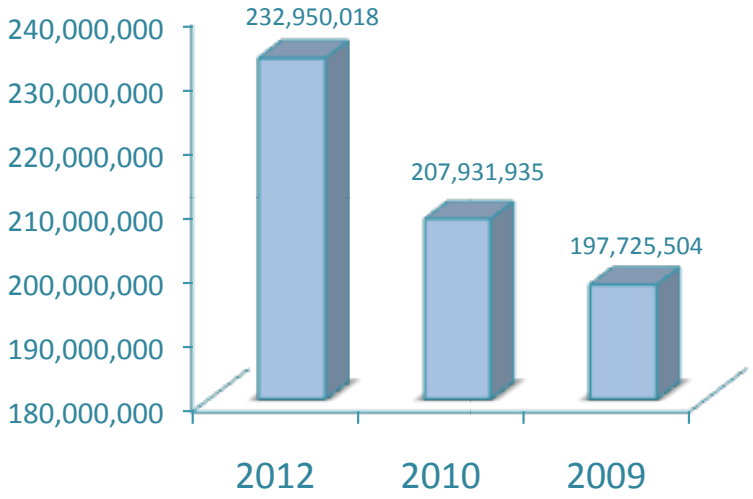
*CO2e means "carbon dioxide equivalents," and is the translation of all types of greenhouse gases into the amount of carbon dioxide which would create the same amount of climate change potential.

2012 Emissions by Source



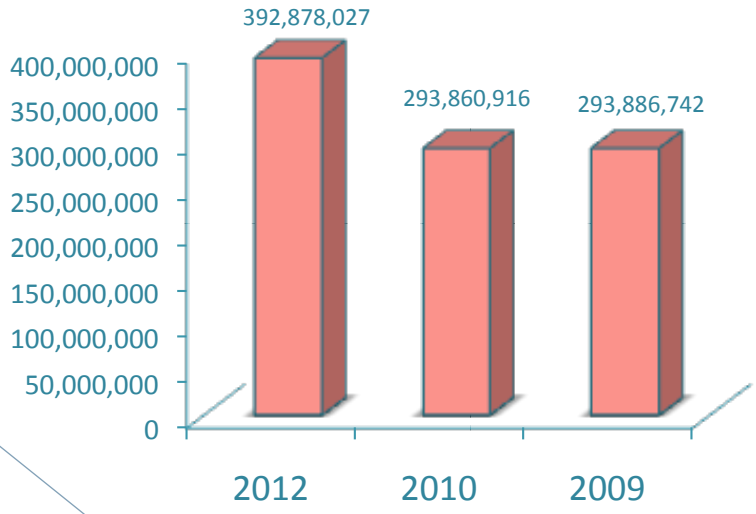
Electricity Consumption by Sector

Residential Kilowatt Hours Consumed

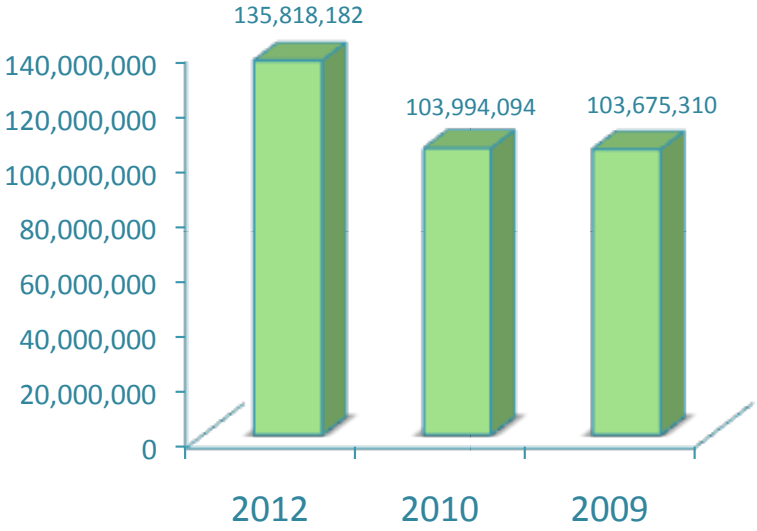


All three sectors saw an increase in electricity consumption from 2010 to 2012 as Flagstaff has grown.

Commercial Kilowatt Hours Consumed

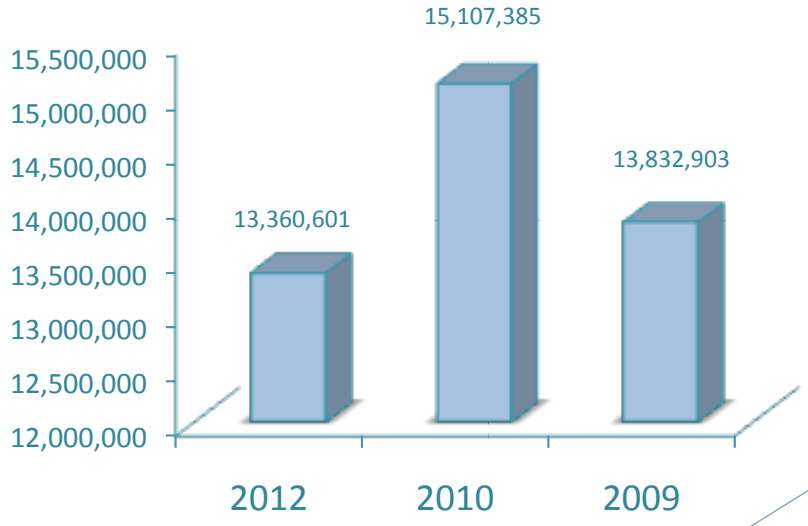


Industrial Kilowatt Hours Consumed



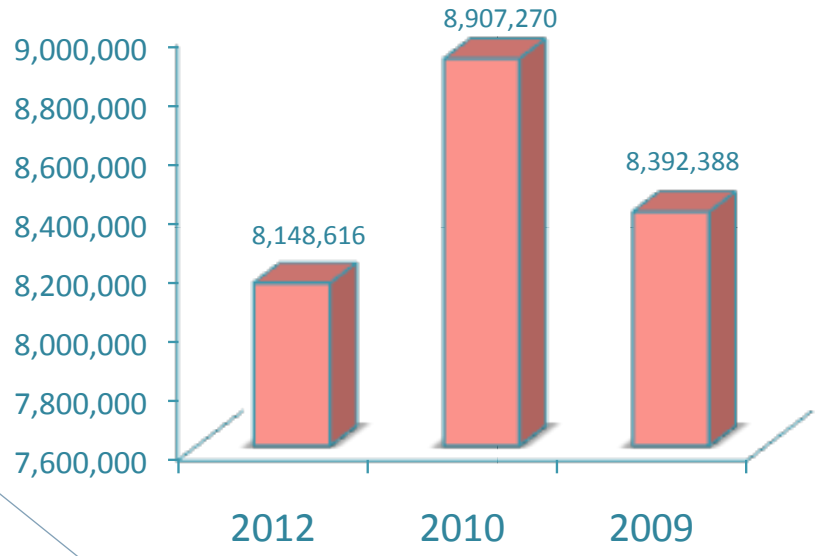
Natural Gas Consumption by Sector

Residential Therms Consumed

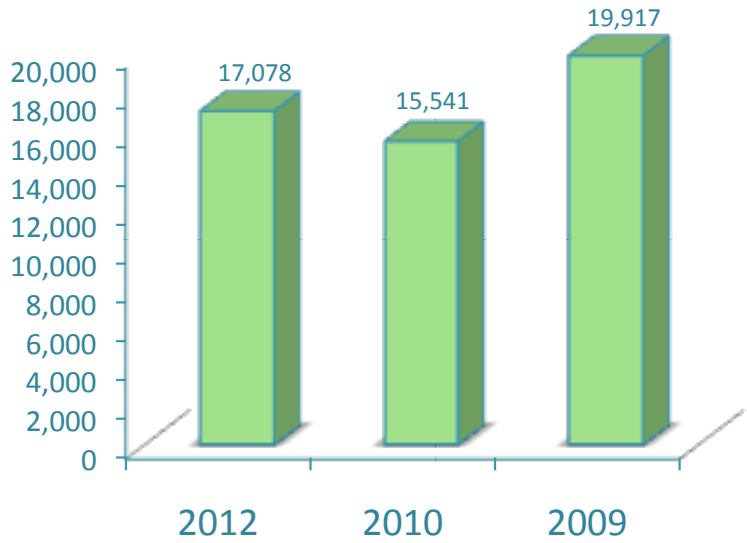


Natural gas consumption was lower in 2012 than in 2010 due to warmer winter temperatures.

Commercial Therms Consumed

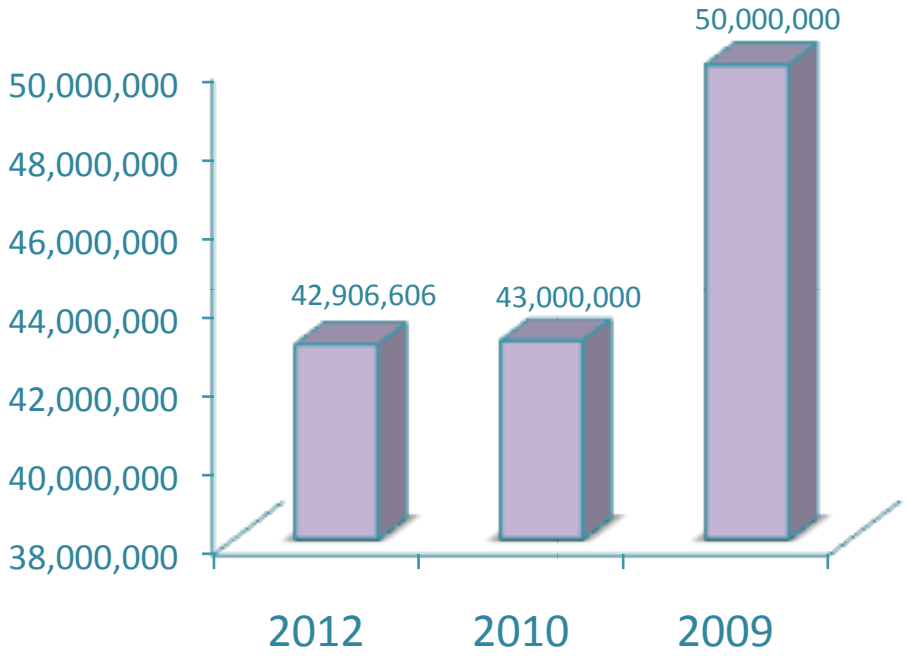


Industrial Therms Consumed



Transportation

Total Gallons of Gasoline and Diesel Consumed



Total gallons of fuel consumed stayed steady from 2010 to 2012. The reduction from 2009 totals may be attributed to changes in data collection.

Waste

Tons of Waste Sent to Landfill

Tons of waste sent to the landfill has been steadily rising as the Flagstaff area continues to grow.